This listing of claims will replace all prior versions and listings of claims in the application:

## Listing of Claims:

(withdrawn) A polypeptide comprising a variant CDRH3 region, wherein the CDRH3 region comprises:

- a) at least one structural amino acid position, wherein said structural amino acid position has a variant amino acid, wherein the variant amino acid is an amino acid found at that position in a randomly generated CDRH3 population at a frequency of at least one standard deviation above the average frequency for any amino acid at that position; and
- at least one non-structural position, wherein the non-structural position has a variant amino acid
- (withdrawn) A variable domain of a monobody comprising a variant CDRH3 region, wherein the variant CDRH3 region comprises:
  - a) at least one structural amino acid position, wherein said structural amino acid position has a variant amino acid, wherein the variant amino acid is an amino acid found at that position in a randomly generated population at a frequency of at least one standard deviation above the average frequency for any amino acid at that position; and
  - at least one non-structural position, wherein the non-structural position has a variant amino acid.
- (withdrawn) The polypeptide according to claim 1, wherein the polypeptide is an antibody variable domain of the Vh3 subgroup.
- (withdrawn) The polypeptide according to claim 1, wherein said at least one nonstructural position is a contiguous amino acid sequence of about 1 to 20 amino acids.

(withdrawn) The polypeptide according to claim 1, wherein said at least one structural
amino acid position is one or both the first two amino acid positions at the N-terminus of a heavy
chain CDRH3.

(withdrawn) The polypeptide according to claim 1, wherein said at least one structural
amino acid position is at least one of the last 6 amino acids at the C-terminus of a heavy chain
CDRH3.

(withdrawn) The polypeptide according to claim 5, wherein the first N-terminal amino acid position has a variant amino acid is selected from the group consisting of R, L, and V.

## (cancelled)

- 9. (withdrawn) The polypeptide according to claim 5, wherein the first amino acid position at the N-terminus has a variant amino acid selected from the group consisting of R, L and V, and the second amino acid position at the N-terminus is selected from the group consisting of I and L.
- (withdrawn) The polypeptide according to claim 6, wherein said at least one structural amino acid position is a third and/or fourth amino acid position from the C-terminus.
- 11. (withdrawn) The polypeptide according to claim 10, wherein the fourth amino acid position from the C-terminus has a variant amino acid selected from the group consisting of M, R, G and W and the third amino acid position from the C-terminus has a variant amino acid selected from the group consisting of P, L, or V.
- 12. (withdrawn) The polypeptide according to claim 6, wherein the at least one structural amino acid position is selected from the amino acid position 100g, 100h, 100i, 100j, 101, 102 of SEO ID NO:137 and mixtures thereof.

13-14. (cancelled)

15. (withdrawn) The polypeptide according to claim 1, wherein said at least one non-structural position has a variant amino acid encoded by a non-random codon set.

16. (withdrawn) The polypeptide according to claim 1, wherein the said at least one structural amino acid position is the first two N-terminal amino acid positions, and the third and fourth positions from the C-terminus of the CDRH3 region.

17. (cancelled)

18. (withdrawn) The variable domain according to claim 2, wherein amino acid position 37 of the framework 2 region is a hydrophobic amino acid.

(withdrawn) The variable domain according to claim 18, wherein amino acid position 37 is phenylalanine or tryptophan.

- 20. (withdrawn) The variable domain according to claim 18, wherein the amino acid position 45 of framework 2 is selected from the group consisting of arginine, tryptophan, phenylalanine and leucine
- 21. (withdrawn) A variable domain of claim 2, further comprising a heavy chain framework 3 region, wherein the amino acid position 91 of the framework 3 region is a phenylalanine tyrosine, or threonine.
- 22. (withdrawn) The polypeptide of claim 1 which is a fusion polypeptide.
- (withdrawn) The polypeptide of claim 22 which is a fusion polypeptide fused to at least a portion of a viral coat protein.

24. (withdrawn) The polypeptide of claim 23, wherein the viral coat protein is selected from the group consisting of p111, pv111, Soc, Hoc, 9pD, pV1 and variants thereof.

## 25-28. (cancelled)

- 29. (withdrawn) A polypeptide comprising a variant CDRH3 region, wherein the CDRH3 region comprises:
  - a) a N terminal portion that comprises at least one structural amino acid position, wherein said structural amino acid position has a variant amino acid, wherein the variant amino acid is an amino acid found at that position in a randomly generated CDRH3 population at a frequency of at least one standard deviation above the average frequency for any amino acid at that position:
  - a central portion that comprises at least one non-structural position, wherein the non-structural position has a variant amino acid; and
  - c) a C-terminal portion that comprises at least one structural amino acid position, wherein said structural amino acid position has a variant amino acid, wherein the variant amino acid is an amino acid found at that position in a randomly generated CDRH3 population at a frequency of at least one standard deviation above the average frequency for any amino acid at that position.
- (withdrawn) The polypeptide according to claim 29, wherein the polypeptide is a heavy chain variable domain of a monobody.
- (withdrawn) The polypeptide according to claims 29, wherein said at least one nonstructural position is a contiguous amino acid sequence of about 1 to 17 amino acids.
- 32. (withdrawn) The polypeptide according to claims 29, wherein said at least one structural amino acid position is one or both the first two amino acid positions at the N-terminus of a heavy chain CDRH3.

33. (withdrawn) The polypeptide according to claims 29, wherein said at least one structural amino acid position is at least one of the last 6 amino acids at the C-terminus of a heavy chain CDRH3.

34. (withdrawn) The polypeptide according to claim 32, wherein the first N-terminal amino acid position has a variant amino acid is selected from the group consisting of R. L. and V.

(cancelled)

36. (withdrawn) The polypeptide according to claim 32, wherein the first amino acid position at the N-terminus has a variant amino acid selected from the group consisting of R, L and V, and the second amino acid position at the N-terminus is selected from the group consisting of I and L.

37. (withdrawn) The polypeptide according to claim 32, wherein the N terminal portion is no more than 4 amino acids

38. (withdrawn) The polypeptide according to claim 33, wherein said at least one structural amino acid position is a third and/or fourth amino acid position from the C-terminus.

39. (withdrawn) The polypeptide according to claim 38, wherein the fourth amino acid position from the C-terminus has a variant amino acid selected from the group consisting of M, R, G and W and the third amino acid position from the C-terminus has a variant amino acid selected from the group consisting of P, L, or V.

40. (withdrawn) The polypeptide according to claim 33, wherein the at least one structural amino acid position is selected from the amino acid position 100g, 100h, 100i, 100j, 101, 102 of SEO ID NO:137 and mixtures thereof.

41. (cancelled)

- 42. (withdrawn) The polypeptide according to claim 33, wherein the C-terminal portion is not more than 6 amino acids.
- (cancelled)
- 44. (withdrawn) The polypeptide according to claim 29, wherein said at least one nonstructural position has a variant amino acid encoded by a non-random codon set.
- 45. (withdrawn) The polypeptide according to claim 29, wherein the central portion is no more than 20 amino acids
- 46. (withdrawn) The polypeptide according to claims 29, wherein the said at least one structural amino acid position is the first two N-terminal amino acid positions, and the third and fourth positions from the C-terminus of the CDRH3 region.
- 47. (cancelled)
- 48. (withdrawn) The variable domain according to claim 30, wherein amino acid position 37 of the framework 2 region is a hydrophobic amino acid.
- 49. (withdrawn) The variable domain according to claim 48, wherein amino acid position 37 is phenylalanine or tryptophan.
- 50. (withdrawn) The variable domain according to claim 30, wherein the amino acid position 45 of framework 2 is selected from the group consisting of arginine, tryptophan, phenylalanine and leucine.
- 51. (withdrawn) A variable domain of claim 30, wherein the amino acid position 91 of the framework 3 region is a phenylalanine, tyrosine or threonine.

- 52. (withdrawn) The polypeptide of claim 29 which is a fusion polypeptide.
- 53. (withdrawn) The polypeptide of claim 52 which is a fusion polypeptide fused to at least a portion of a viral coat protein.
- 54. (withdrawn) The polypeptide of claim 53, wherein the viral coat protein is selected from the group consisting of p111, pv111, Soc, Hoc, 9pD, pV1 and variants thereof.
- 55-58. (cancelled)
- 59. (withdrawn) A polypeptide comprising a CDRH3, wherein the CDRH3 comprises an amino acid sequence having the formula of A<sub>1</sub>–A<sub>2</sub>–(A<sub>3</sub>)<sub>n</sub>–A<sub>4</sub>–A<sub>5</sub>; wherein

A<sub>1</sub> is an amino acid selected from the group consisting of R. L. V. F. W and K:

A2 is an amino acid selected from the group consisting of I, L, V, R, W and S;

A<sub>3</sub> is any naturally occurring amino acid and n can be 1-17;

A<sub>4</sub> is an amino acid selected from the group consisting of W, G, R, M, S, A and H;

As is an amino acid selected from the group consisting of V, L, P, G, S, E and W.

- 60. (withdrawn) A polypeptide comprising a CDRH3, wherein the CDRH3 comprises an amino acid sequence having the formula of A<sub>1</sub>-A<sub>2</sub>-(A<sub>3</sub>)<sub>n</sub>-A<sub>4</sub>-A<sub>5</sub>-A<sub>6</sub>: wherein
  - A<sub>1</sub> is an amino acid selected from the group consisting of R, L, V, F, W and K;

A2 is an amino acid selected from the group consisting of I. L. V. R. W and S:

A<sub>3</sub> is any naturally occurring amino acid and n can be 1-17;

A4 is an amino acid selected from the group consisting of W. G. R. M. S. A and H:

As is an amino acid selected from the group consisting of V, L, P, G, S, E and W; and

A6 and A7 are any naturally occurring amino acid.

- (withdrawn) A variable domain of a monobody comprising a CDRH3, wherein the CDRH3 comprises an amino acid sequence having the formula of A<sub>1</sub>-A<sub>2</sub>-(A<sub>3</sub>)<sub>n</sub>-A<sub>4</sub>-A<sub>5</sub>-A<sub>6</sub>-A<sub>7</sub>;
   wherein
  - A1 is an amino acid selected from the group consisting of R, L, V, F, W and K;
  - A2 is an amino acid selected from the group consisting of I, L, V, R, W and S;
  - A<sub>3</sub> is any naturally occurring amino acid and n can be 1-17;
  - A4 is an amino acid selected from the group consisting of W, G, R, M, S, A and H;
  - $A_5$  is an amino acid selected from the group consisting of V, L, P, G, S, E and W; and
  - A6 and A7 are any naturally occurring amino acid.
- 62. (withdrawn) The polypeptide according to claim 59, wherein
  - A<sub>1</sub> is R;
  - A2 is I;
  - A4 is W;
  - As is V: and
  - n=11
- 63. (withdrawn) The polypeptide according to claim 59, wherein
  - A<sub>1</sub> is L;
  - A2 is L:
  - As is L; and
  - n=11.
- 64. (withdrawn) The polypeptide according to claim 59, wherein

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- A<sub>1</sub> is V:
- A2 is L;
- A4 is R;
- As is V; and
- n=11.

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65. (withdrawn) The polypeptide according to claim 59, wherein

A<sub>1</sub> is R;

A2 is L; and

n=11.

- 66. (withdrawn) The polypeptide according to claim 59, wherein n is 9 to 12.
- 67. (cancelled)
- 68. (withdrawn) The polypeptide according to claim 59, wherein the amino acid or amino acids of A<sub>3</sub> are encoded by a nonrandom codon set.
- (withdrawn) A polypeptide comprising a CDRH3, wherein the CDRH3 comprises an
  amino acid sequence having the formula of A₁-A₂-(A₁),-A₄-Aṣ-A₀-A₂-A₀-A₂-A₀.

A<sub>1</sub> is an amino acid selected from the group consisting of R, L, and V;

A<sub>2</sub> is an amino acid selected from the group consisting of I, L, and V;

A<sub>3</sub> is any naturally occurring amino acid and n = 1-17;

A4 is an amino acid selected from the group consisting of E, W, and F;

As is any naturally occurring amino acid;

As is an amino acid selected from group consisting of W. G. R. and M:

A7 is an amino acid selected from the group consisting of V, L, and P; and

As and Ao are any naturally occurring amino acid.

- (withdrawn) The polypeptide according to claim 69, wherein the polypeptide is a variable domain of a monobody.
- 71. (withdrawn) The polypeptide according to claim 70, wherein

 $A_1$  is R;

A2 is I:

A6 is W:

 $A_7$  is V; and n=9.

72. (withdrawn) The polypeptide according to claim 70, wherein

A<sub>1</sub> is L:

A<sub>2</sub> is L;

A4 is W;

As is L; and

n=9.

73. (withdrawn) The polypeptide according to claim 70, wherein

A<sub>1</sub> is V;

A2 is L;

A<sub>4</sub> is F;

A6 is R:

A<sub>7</sub> is V; and

n=9.

74. (withdrawn) The polypeptide according to claim 70, wherein

A<sub>1</sub> is R:

A2 is L:

A4 is W; and

n=9.

- 75. (cancelled)
- (withdrawn) The polypeptide according to claim 70, wherein A<sub>3</sub> is encoded by a nonrandom codon set.

77-80, (cancelled)

- 81. (withdrawn) A method of generating a polypeptide comprising a variant CDRH3, wherein said polypeptide is capable of binding a target molecule of interest, said method comprising:
  - a) identifying at least one structural amino acid position in CDRH3; and
  - b) replacing the amino acid at said at least one structural amino acid position with a variant amino acid found at that position in a population of polypeptides with randomized CDRH3 at a frequency at least one standard deviation above the average frequency for any amino acid at that position; and
  - c) replacing at least one non-structural amino acid position with a variant amino acid, wherein the variant amino acid is any of the naturally occurring amino acid or is encoded by a nonrandom codon set.
- 82. (withdrawn) The method according to claim 81, wherein identifying at least one structural amino acid position comprises:
  - a) generating a population of variant CDRH3 regions from a parent CDRH3
     by replacing each amino acid position in the CDRH3 with a scanning amino acid; and
  - b) identifying a structural amino acid position in the CDRH3 as an amino acid position that when substituted with a scanning amino acid, the substituted polypeptide has a decrease in binding with a target molecule as compared to the parent CDRH3 region, wherein the target molecule specifically binds to a folded polypeptide and does not bind to unfolded polypeptide.
- 83. (withdrawn) The method according to claim 81, wherein identifying at least one structural amino acid position comprises:
  - a) generating a population of polypeptides with randomly generated variant CDRH3 regions, wherein each amino acid position in the variant CDRH3 regions is randomized:

- selecting members of the population that interact with a target molecule, wherein the target molecule specifically binds to a folded polypeptide and does not bind to an unfolded polypeptide;
  - c) determining the sequence of the selected members; and
- d) identifying a structural amino acid position as a position that when substituted with a scanning amino acid the substituted polypeptide has a decrease in binding with the target molecule as compared to polypeptide with parent CDRH3 region.
- 84. (withdrawn) The method according to claim 81, wherein the polypeptide is a variable domain of a camelid monobody.
- 85. (withdrawn) A polypeptide prepared according to the method of claim 81.
- 86-89. (cancelled)
- 90. (withdrawn) A variable domain of a monobody comprising a CDRH3, wherein the CDRH3 comprises an amino acid sequence having the formula of  $R-A_2-A_3-R-(A_5)_n$ ; wherein  $A_2$  is L, L or M,  $A_3$  and  $A_5$  are any naturally occurring amino acid, and n=1 to 20.
- 91. (withdrawn) A variable domain of a monobody comprising a CDRH3, wherein the CDRH3 comprises an amino acid sequence having the formula of R-A<sub>2</sub>-(A<sub>3</sub>)<sub>n</sub>-W-A<sub>5</sub>-A<sub>6</sub>-A<sub>7</sub>-A<sub>8</sub>-A<sub>9</sub>; wherein A<sub>3</sub>, A<sub>5</sub>, A<sub>6</sub>, A<sub>7</sub>, A<sub>8</sub> and A<sub>9</sub> are any naturally occurring amino acid and A<sub>2</sub> is L, I or M, and n = 1 to 20.
- 92. (withdrawn) A method for designing a CDRH3 scaffold comprising:
  - generating a library of polypeptides with variant CDRH3 regions;
  - selecting members of the library that bind to a target molecule that binds to folded polypeptide and does not bind to unfolded polypeptide;
  - analyzing the binders to identify structural amino acid positions in the CDRH3 region; and

- d) selecting as a scaffold, a binder that has a structural amino acid position at the N and/or C-termini of the CDRH3 and not in a central position of the CDRH3.
- 93. (withdrawn) The method according to claim 92, further comprising:
  - e) identifying an amino acid that can be substituted at the structural amino acid position, wherein the amino acid is selected from the group of amino acids that occur at that position more frequently than randomly expected;
  - f) forming a scaffold with at least one identified amino acid in at least one structural amino acid position.
- 94. (withdrawn) The method according to claim 92, wherein the structural amino acid positions are selected from the group consisting of the first N-terminal amino acid, the second N-terminal amino acid and the last six C-terminal amino acid, and mixtures thereof.
- 95. (withdrawn) The method according to claim 94, wherein the identified amino acids are selected from the group consisting of arginine, tyrosine, phenylalanine, tryptophan, and valine.
- 96. (withdrawn) A polypeptide comprising a CDRH3, wherein the CDRH3 comprises an amino acid sequence having the formula of:

$$A_1-A_2-A_3-A_4-(A_5)_n-A_6-A_7-A_8-A_9-A_{10}$$

wherein A<sub>1</sub> is an amino acid selected from the group consisting of R, L and V;

A<sub>2</sub> is an amino acid selected from the group consisting of I, L and V;

A<sub>3</sub> is any naturally occurring amino acid;

A<sub>4</sub> is selected from the group consisting of C, R and N;

 $A_5$  is any naturally occurring amino acid and n = 1-16;

A6 is an amino acid selected from the group consisting of C, S, F, T, E and D;

A7 is an amino acid selected from the group consisting of W, G, R and M;

A<sub>8</sub> is an amino acid selected from the group consisting of V, L and P;

A<sub>9</sub> is an amino acid selected from the group consisting of T, V, L and Q; and

A<sub>10</sub> is an amino acid selected from the group consisting of W, G, S and A.

- 97. (cancelled)
- (withdrawn) The polypeptide according to claim 97, wherein the polypeptide is a camelid monobody.
- 99. (withdrawn) The polypeptide of claim 96, wherein

A<sub>1</sub> is R;

A2 is I;

A<sub>4</sub> is C;

A<sub>6</sub> is C;

Ar is W:

As is V:

A<sub>9</sub> is T;

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A<sub>10</sub> is W; and

n=7.

100-104. (cancelled)

105. (Currently Amended) A fusion protein comprising at least a portion of a <u>filamentous</u> phage coat protein fused to a binding polypeptide comprising a heavy chain variable domain comprising a CDRH3 scaffold comprising; a) an N-terminal portion of <del>about</del> 1 to 4 amino acids in which some or all amino acid positions are structural; b) a C terminal portion of <del>about</del> 1 to 6 amino acids in which some or all amino acid positions are structural, and c)a central portion or loop of <del>about</del> 1 to 20 contiguous amino acids that can vary in sequence and in length, <u>wherein</u> the portion of the phage coat protein provides for display of the fusion protein on the filamentous phage.

106. (previously presented) The fusion protein of claim 105, wherein the N-terminal portion has a cysteine residue and the C terminal portion has a cysteine residue, wherein the cysteine

residues in the N terminal and C-terminal portion of the CDRH3 scaffold form a disulfide bond that stabilizes the central portion insert.

- 107. (previously presented) The fusion protein of claim 105, wherein the N-terminal portion has a N terminal sequence of R-L/I/M-A<sub>3</sub>-R, wherein A<sub>3</sub> is any naturally occurring amino acid.
- 108. (withdrawn and previously presented) The fusion protein of claim 105, wherein the N terminal portion has a N terminal sequence of R-I-A<sub>3</sub>-C, wherein A<sub>3</sub> is any naturally occurring amino acid.
- 109. (previously presented) The fusion protein of claim 105, wherein the N terminal portion has a N terminal sequence that comprises R-I, L-L, V-L, or R-L.
- 110. (previously presented) The fusion protein of claim 105, wherein the C terminal portion has a C terminal sequence that comprises CWVTW.
- 111. (previously presented) The fusion protein of claim 105, wherein C-terminal portion has a C terminal sequence that comprises F-X-R-V, W-X-X-L, W-X-M-P, or W-V, wherein X can be any naturally occurring amino acid.
- 112. (withdrawn) The fusion protein of claim 105, wherein the N terminal portion is 2 amino acids.
- 113. (previously presented) The fusion protein of claim 105, wherein the C terminal portion is 4 amino acids
- 114. (previously presented) The fusion protein of claim 105, wherein the central portion is a contiguous sequence of 9 to 12 amino acids.

- 115. (Currently Amended) The fusion protein of claim 105, wherein the N-terminal portion comprises an N terminal sequence of R-L/I/M-A<sub>3</sub>-R; wherein A<sub>3</sub> is any naturally occurring amino acid, and wherein the central portion insert is a contiguous amino acid sequence of about 1 to 20 amino acids; and the C terminal portion comprises the amino acid sequence W-A<sub>7</sub>-A<sub>8</sub>-A<sub>9</sub>-A<sub>10</sub>-A<sub>11</sub>; wherein A<sub>7</sub>, A<sub>8</sub> A<sub>9</sub>, A<sub>10</sub>, and A<sub>11</sub> are any naturally occurring amino acid.
- 116. (previously presented) The fusion protein of claim 105, wherein said at least one structural amino acid position comprises the first two N-terminal amino acid positions, and the third and fourth positions from the C-terminus of the CDRH3 region.
- 117. (previously presented) The fusion protein according to claim 116, wherein the first N-terminal amino acid position has a variant amino acid selected from the group consisting of R, L, and V.
- 118. (previously presented) The fusion protein according to claim 116, wherein the first amino acid position at the N-terminus has a variant amino acid selected from the group consisting of R, L and V, and the second amino acid position at the N-terminus is selected from the group consisting of I and L.
- 119. (previously presented) The fusion protein according to claim 105, wherein said at least one structural amino acid position is a third and/or fourth amino acid position from the Cterminus.
- 120. (previously presented) The fusion protein according to claim 119, wherein the fourth amino acid position from the C-terminus has a variant amino acid selected from the group consisting of M, R, G and W and the third amino acid position from the C-terminus has a variant amino acid selected from the group consisting of P, L, and V.

- 121. (previously presented) The fusion protein according to claim 119, wherein said at least one structural amino acid position is selected from an amino acid position 100g, 100h, 100i, 100i, 101, and 102 of SEO ID NO:137 and mixtures thereof.
- 122. (previously presented) The fusion protein according to claim 105, wherein the central portion has at least one a variant amino acid encoded by a non-random codon set.
- 123. (currently amended) The fusion protein of claim 105 wherein the antibody heavy chain variable domain comprises a framework region that comprises a hydrophobic amino acid at position 37 and an amino acid at position 45 selected from a hydrophobic amino acid or arginine.
- 124. (previously presented) The fusion protein of claim 123, wherein amino acid position 37 is selected from the group consisting of phenylalanine and tryptophan.
- 125. (previously presented) The fusion protein of claim 123, wherein amino acid position 45 is selected from the group consisting of arginine, tryptophan, phenylalanine and leucine.
- 126. (previously presented) The fusion protein of claim 123, wherein the antibody heavy chain variable domain further comprises another framework region, wherein the another framework region comprises an amino acid at amino acid position 91 of the framework region selected from the group consisting of a phenylalanine, tyrosine and threonine.
- 127. (previously presented) The fusion protein of claim 105, wherein the viral coat protein is selected from the group consisting of p3, p8, Soc, Hoc, 9pD, and pVI.
- 128. (previously presented) The fusion protein of claim 105, wherein the CDRH3 comprises an amino acid sequence having the formula of:

$$A_1-A_2-A_3-A_4-(A_5)_n-A_6-A_7-A_8-A_9-A_{10}$$

wherein A<sub>1</sub> is an amino acid selected from the group consisting of R, L and V; A<sub>2</sub> is an amino acid selected from the group consisting of I. L and V:

A<sub>3</sub> is any naturally occurring amino acid:

A4 is selected from the group consisting of C, R and N;

 $A_5$  is any naturally occurring amino acid and n = 1-16;

A<sub>6</sub> is an amino acid selected from the group consisting of C, S, F, T, E and D;

A<sub>7</sub> is an amino acid selected from the group consisting of W, G, R and M:

A<sub>8</sub> is an amino acid selected from the group consisting of V, L and P;

A9 is an amino acid selected from the group consisting of T, V, L and Q; and

A<sub>10</sub> is an amino acid selected from the group consisting of W, G, S and A.

- 129. (withdrawn) The fusion protein of claim 128, wherein the polypeptide is a camelid monobody.
- 130. (withdrawn) The fusion protein of claim 128, wherein

 $A_1$  is R;

A2 is I:

A<sub>4</sub> is C:

A<sub>6</sub> is C;

A<sub>7</sub> is W;

As is V:

A<sub>0</sub> is T:

A<sub>10</sub> is W; and

n=7.